

Preliminary Amendment
Attorney Docket No. 042870

AMENDMENTS TO THE CLAIMS

The following listing of claims replaces all prior versions and listings of claims in the application.

Listing of Claims

1. (Original): A light condensing system comprising:

a backlight system having a light source and a first light condensing section (X) capable of condensing emitted light from the light source within $\pm 60^\circ$ of the front direction; and
a light condensing film with no patterned structure as a second light condensing element (Y).

2. (Original): The light condensing system according to claim 1, wherein

the backlight system having the first light condensing section (X) is a light source and a microprism sheet array disposed on the light source.

3. (Original): The light condensing system according to claim 1, wherein

the backlight system having the first light condensing section (X) is a mioprism formed light guide combined with a light source.

4. (Original): The light condensing system according to claim 1, wherein

the backlight system having the first light condensing section (X) is a microdot formed light guide combined with a light source.

5. (Currently amended): The light condensing system according to ~~any of claims 1 to 4~~ claim 1, wherein

the light condensing film used as the second light condensing element (Y) has no patterned structure; therefore, neither a moiré nor an interference fringe occurs between the light condensing film and a regular pattern of another optical member by applying the light condensing film to a liquid crystal cell when optical observation is conducted from the front side (a viewer side).

6. (Currently amended): The light condensing system according to ~~any of claims 1 to 5~~ claim 1, wherein

the light condensing film used as the second light condensing element (Y) is a polarization element (A) in a structure in which a retardation layer (b) is disposed between at least two reflection polarizers (a) having respective polarized light selective reflection wavelength bands superimposing on each other.

7. (Original): The light condensing system according to claim 6, wherein
a reflection polarizer (a) is a circular polarization type reflection polarizer (a1) transmitting circularly polarized light but selectively reflecting a reverse circularly polarized light and
a retardation layer (b) has a retardation layer (b1) having a front retardation (in the normal direction) of almost zero and a retardation of $\lambda/8$ or more relative to incident light incoming in a direction inclined from the normal direction by 30° or more.

8. (Original): The light condensing system according to claim 6, wherein

the reflection polarizer (a) is a linear polarization type reflection polarizers (a2)

transmitting one of linearly polarized lights perpendicular to each other, but selectively reflecting the other thereof,

the retardation layer (b) comprises a retardation layer (b1) having a front retardation (in the normal direction) of almost zero and a retardation of $\lambda/4$ or more relative to incident light incoming at a direction inclined from the normal direction by 30° or more,

layers (b2) each having a front retardation of about $\lambda/4$ disposed on both sides of the retardation layer (b1), one of the layers (b2) being disposed between the retardation layer (b1) and a corresponding linear polarization type reflection polarizer (a2) and the other of the layers (b2) being disposed between the retardation layer (b1) and another linear polarization type reflection polarizer (a2),

the layer (b2) on the incidence side is arranged at an angle of 45° (-45°) $\pm 5^\circ$ relative to the polarization axis of the linear polarization type reflection polarizer (a2) on the incidence side,

the layer (b2) on the emission side is arranged at an angle of -45° (45°) $\pm 5^\circ$ relative to the polarization axis of the linear polarization type reflection polarizer (a2) on the emission side, and

the layer (b2) on the incidence side and the layer (b2) on the emission side are arranged at an arbitrary angle formed between the respective slow axes thereof.

9. (Original): The light condensing system according to claim 6, wherein
the reflection polarizers (a) is a linear polarization type reflection polarizers (a2) each
transmitting one of linearly polarized lights perpendicular to each other, but selectively reflecting
the other thereof,
the retardation layer (b) comprises two biaxial retardation layers (b3) each having a front
retardation of about $\lambda/4$ and an Nz factor of 2 or more,
the slow axis direction of the layer (b3) on the incidence side is arranged at an angle of 45°
 $(-45^\circ) \pm 5^\circ$ relative to the polarization axis of the linear polarization type reflection polarizer (a2)
on the incidence side,
the slow axis direction of the layer (b3) on the emission side is arranged at an angle of -45°
 $(+45^\circ) \pm 5^\circ$ relative to the polarization axis of the linear polarization type reflection polarizer (a2)
on the emission side, and
the layer (b3) on the incidence side and the layer (b3) on the emission side are arranged at
an arbitrary angle formed between the respective slow axes thereof.

10. (Original): The light condensing system according to claim 6, wherein
the reflection polarizers (a) is a linear polarization type reflection polarizers (a2) each
transmitting one of linearly polarized lights perpendicular to each other, but selectively reflecting
the other thereof,
the retardation layer (b) comprises one biaxial retardation layer (b4) having a front
retardation of about $\lambda/2$ and an Nz factor of 1.5 or more,

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the slow axis direction of the layer on the incidence side is arranged at an angle of 45° (-45°) $\pm 5^\circ$ relative to the polarization axis of the linear polarization type reflection polarizer (a2) on the incidence side,

the slow axis direction of the layer on the emission side is arranged at an angle of -45° (45°) $\pm 5^\circ$ relative to the polarization axis of the linear polarization type reflection polarizer (a2) on the emission side, and

the polarization axes of the two linear polarization type reflection polarizers (a2) are almost perpendicular to each other.

11. (Currently amended): The light condensing system according to ~~any of claims 1 to 5~~
claim 1,

wherein the light condensing film used as the second light condensing element (Y) is a band pass filter and the light source has a bright line spectrum.

12. (Original): The light condensing system according to claim 11, wherein the band pass filter is an evaporation-deposited multilayer film band pass filter.

13. (Original): The light condensing system according to claim 11, wherein the band pass filter is a cholesteric liquid crystal band pass filter.

14. (Original): The light condensing system according to claim 11, wherein the band pass filter is a band pass filter constituted of a stretched film from a base material extruded in multilayer laminate made of resin materials having respective different refractive indexes.

15. (Original): The light condensing system according to claim 11, wherein the band pass filter is a band pass filter constituted of a thin multilayer precision coating film made of resin materials having respective different refractive indexes.

16. A transmission liquid crystal display comprising at least:
a light condensing system according to ~~any of claims 1 to 15~~ claim 1;
a liquid crystal cell transmitting collimated lights; and
polarization plates disposed on both sides of the liquid crystal cell.